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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/572,624

03/17/2006

Ruediger Johannes Lange

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

CALEY, MICHAEL H

ART UNIT

PAPER NUMBER

2871

MAIL DATE

DELIVERY MODE

03/06/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/572,624	Applicant(s) LANGE ET AL.	
	Examiner MICHAEL H. CALEY	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

**Claims 1-3 and 6-8 are rejected under 35 U.S.C. 102(e) as being anticipated by
Jacobsen et al. (U.S. Patent No. 7,002,555 “Jacobsen”).**

Regarding claim 1, Jacobsen discloses a display device including a display arranged for detecting an input position on a screen of the display wherein the screen comprises:

a light guide (Figure 1 element 1) and a light source (Figure 1 element 3) arranged to emit light into the light guide, the light guide being optically matched with its surroundings in such way that the light emitted from the light source is confined within the light guide by means of total internal reflection (Column 3 lines 55-59), and is extracted from the light guide when a user establishes physical contact with the screen at the input position (Column 2 lines 5-23),

the display further comprising a light detecting means (Figure 1 element 4) for detecting the light extracted from the light guide and relate the detecting of the extracted light to the input position (Column 6 lines 1-47).

Regarding claim 2, Jacobsen discloses a plurality of photo sensors associated with different input positions on the screen (Column 5 lines 4-16).

Regarding claim 3, Jacobsen discloses the light detecting means as integrated with a substrate of the display (Column 6 lines 6-9).

Regarding claim 6, Jacobsen discloses the light guide as optically matched with the screen (Column 3 line 60 - Column 4 line 8).

Regarding claim 7, Jacobsen discloses the light guide as integrated with a front plate of the display device (Figure 2 element 1, 5).

Regarding claim 8, Jacobsen discloses the light source as arranged to emit light into the light guide in the infrared range (Column 6 lines 5-6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobsen in view of Yamamoto et al. (U.S. Patent No. 5,742,279 “Yamamoto”).

Jacobsen fails to disclose the display as an active matrix type display in which the substrate is provided with thin film transistors associated with picture elements of the display screen and the light detecting means as including the thin film transistors. Yamamoto, however, teaches such an active matrix display arrangement in which the TFT's have a combined task as picture elements and as part of the light detection means (Column 11 lines 50-57).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the display as an active matrix including TFT's associated with the picture elements and included in the light detection means. One would have been motivated to incorporate TFT's as proposed as a means of performing the image display and light detection functions with a single component (Yamamoto: Column 11 lines 50-57).

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobsen in view of Komadina et al. (U.S. Patent No. 4,591,710 “Komadina”).

Jacobsen fails to explicitly disclose the light detecting means as provided with an optical filter to increase selectivity for light extracted from the light guide. Komadina, however, teaches such a filter as useful to reduce noise generated by ambient light (abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the light detecting means with an optical filter. One would have been motivated to incorporate the optical filter to prevent noise from ambient light (Komadina: abstract).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL H. CALEY whose telephone number is (571)272-2286. The examiner can normally be reached on M-F 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael H. Caley/
Primary Examiner, Art Unit 2871